Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers, each such camera-motion layer being a layer that appears to move with the camera as the camera moves, and zero or more original fixed-frame layers decomposed from an original video sequence, comprising the step of:

editing at least one of said original camera-motion layers to obtain modified cameramotion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence,

wherein at least one modified camera-motion layer corresponds to an original cameramotion layer containing at least one substantially non-stationary component.

2. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the steps of:

converting one of said original camera-motion layers to an original image; editing said original image to obtain a modified image; and converting said modified image to one of said modified camera-motion layers.

3. (Original) A method as in claim 2, wherein said step of editing said original cameramotion layers further comprises the steps of:

rectifying said original image prior to editing said original image; and rectifying said modified image prior to converting said modified image.

4. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

inserting a portion into, deleting a portion from, or changing a portion of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

5. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

replacing one of said original camera-motion layers with another camera-motion layer to obtain one of said modified camera-motion layers.

6. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

adding a video sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

7. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

adding an animation sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

8. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

adding a three-dimensional object to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

9. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

adding a user-activated region to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

10. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

modifying an on/off time of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

11. (Original) A method as in claim 1, wherein said step of editing said original camera-

motion layers comprises the step of:

modifying an opaqueness of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

12. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

modifying fade-in/fade-out of one of said original camera-motion layer to obtain one of said modified camera-motion layers.

13. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

modifying an ordering of one of said original camera-motion layers with respect to other layers of said decomposed original video sequence to obtain said modified camera-motion layers.

14. (Previously Presented) A method as in claim 1, wherein said step of editing said original camera-motion layers comprises the step of:

deleting one of said original camera-motion layers of said decomposed original video sequence.

15. (Original) A method as in claim 1, wherein said step of editing said original camera-

motion layers comprises the step of:

adding another camera-motion layer to said decomposed original video sequence, such that an ordering of said original camera-motion layers with respect to other layers of said decomposed original video sequence is modified to obtain said modified camera-motion layers.

16. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

modifying a size of one of said original camera-motion layer to obtain one of said modified camera-motion layer.

17. (Original) A method as in claim 1, wherein said step of editing said original cameramotion layers comprises the step of:

editing camera motion parameters of one of said original camera-motion layer to obtain modified camera motion parameters.

18. (Original) A method as in claim 17, wherein said step of editing camera motion parameters comprises the step of:

adjusting at least one of said camera motion parameters to obtain said modified camera motion parameters.

19. (Original) A method as in claim 17, wherein said step of editing camera motion

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parameters comprises the step of:

replacing said camera motion parameters with analytically-derived camera motion parameters to obtain said modified camera motion parameters.

20. (Original) A method as in claim 17, wherein said step of editing camera motion parameters comprises the step of:

replacing said camera motion parameters with camera motion parameters from another video sequence to obtain said modified camera motion parameters.

21. (Currently Amended) A method as in claim 1, wherein said decomposed original video sequence contains one or more fixed-frame layers, the method further comprising the step of:

editing at least one of said original fixed-frame layers to obtain <u>at least one modified</u> fixed-frame layers.

22. (Original) A method as in claim 21, wherein said step of editing said original fixed-frame layers comprises the steps of:

converting one of said original fixed-frame layers to an original image; editing said original image to obtain a modified image; and converting said modified image to one of said modified fixed-frame layers.

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23. (Original) A method as in claim 22, wherein said step of editing said original fixed-frame layers further comprises the steps of:

rectifying said original image prior to editing said original image; and rectifying said modified image prior to converting said modified image.

24. (Original) A method as in claim 21, wherein said step of editing said original fixed-frame layers comprises the step of:

adding camera motion parameters to at least one of said original fixed-frame layers.

- 25. (Original) A computer comprising software to perform the method of claim 1.
- 26. (Original) A computer-readable medium comprising software to perform the method of claim 1.
- 27. (Currently Amended) An apparatus for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original cameramotion layers, each such camera-motion layer being a layer that appears to move with the camera as the camera moves, and zero or more original fixed-frame layers decomposed from an original video sequence, comprising:

means for editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed

from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence,

wherein at least one modified camera-motion layer corresponds to an original cameramotion layer containing at least one substantially non-stationary component.

28. (Original) An apparatus as in claim 27, further comprising:

means for editing at least one of said original fixed-frame layers to obtain modified fixed-frame layers.

29. (Currently Amended) An apparatus for editing an original video sequence, comprising:

an object-based video encoder to decompose said original video sequence into a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers, each such camera-motion layer being a layer that appears to move with the camera as the camera moves, and zero or more original fixed-frame layers;

a video editor to edit at least one of said original camera-motion layers to obtain a decomposed modified video sequence, wherein at least one original camera-motion layer edited by said video editor contains at least one substantially non-stationary component; and

an object-based video compositor to compose said decomposed modified video sequence to obtain a composite modified video sequence, wherein each frame of said composite modified video sequence is obtained without editing each frame of said original video sequence.

30. (New) A method for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers, each such camera-motion layer being a layer that appears to move with the camera as the camera moves, and zero or more original fixed-frame layers decomposed from an original video sequence, comprising:

editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence, said editing comprising editing at least one camera motion parameter of one of said original camera-motion layer to obtain a set of modified camera motion parameters, said camera motion parameters dictating camera movement with respect to the one or more camera-motion layers.

31. (New) The method of Claim 30, further comprising:

composing said composite modified video sequence from said modified camera-motion layers and said original fixed-frame layers, including reprojecting a relevant part of said modified camera-motion layers according to said modified camera motion parameters.

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- 32. (New) The method of Claim 30, wherein said camera motion parameters are to specify a coordinate transformation between an image plane of at least one camera-motion layer and an image plane of at least one video frame.
- 33. (New) The method of Claim 30, wherein said camera movement includes at least one type of movement selected from the group consisting of: panning, zooming, tilting, and rolling.